

Date: Tue, 1 Nov 94 04:30:45 PST
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>
Errors-To: Ham-Space-Errors@UCSD.Edu
Reply-To: Ham-Space@UCSD.Edu
Precedence: List
Subject: Ham-Space Digest V94 #308
To: Ham-Space

Ham-Space Digest Tue, 1 Nov 94 Volume 94 : Issue 308

Today's Topics:

How do I find a satellite? (2 msgs)
 A0-27 Questions
 ARLK048 Keplerian data
 Getting Started on Satellites HELP!
 RUSSIAN MILITARY SATELLITES
 Satellite tracking software needed

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>
Send subscription requests to: <Ham-Space-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 27 Oct 1994 12:24:28 GMT
From: s2202629@np.ac.sg (Teh Aik Wen)
Subject: #### How do I find a satellite?

How do I find if there are any amateur satallites passing over me
and what freqs/bands do they use, and when will they be above me, and how
long will they be there?

You get the general idea... 8)

Rgds!

Date: 27 Oct 1994 12:25:48 GMT
From: s2202629@np.ac.sg (Teh Aik Wen)
Subject: #### How do I find a satellite?

Sorry, I meant when I said satellites, I meant things in space with amateur equipment, as well as astronauts if any.

And my post got clipped. Last line was supposed to read "I'm geographically located in Singapore".

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Date: 31 Oct 1994 10:31:04 -0600
From: dmart@cnj.digex.net (Dave Marthouse)
Subject: AO-27 Questions

Does anyone have any information about AO-27. I have worked this satellite when it was operating in amateur mode J. What is this used for in the commercial service? What modulation techniques are used. I assume that the frequencies are near the 430 and 2 meter amateur bands. Any information would be appreciated.

Dave Marthouse
Internet: dmart@cnj.digex.net n2aam@bagg.overleaf.com

Date: Mon, 31 Oct 1994 09:49:58 EST
From: w1aw@arrl.org
Subject: ARLK048 Keplerian data

SB KEP @ ARL \$ARLK048
ARLK048 Keplerian data

ZCZC SK16
QST de W1AW
Keplerian Bulletin 48 ARLK048
From ARRL Headquarters
Newington, CT October 29, 1994
To all radio amateurs

SB KEP ARL ARLK048
ARLK048 Keplerian data

Thanks to NASA, AMSAT and N3FKV for the following Keplerian data.

Decode 2-line elsets with the following key:

1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ
2 AAAAA EEE.EEEE FFF.FFFF GGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

STS-66

1 99966U 94307.76579162 .00051270 00000-0 16849-3 0 26
2 99966 56.9997 196.6306 0011659 276.4103 83.5649 15.89544561 27

A0-10

1 14129U 83058B 94289.48195497 -.00000348 00000-0 10000-3 0 3242
2 14129 26.8030 302.7931 6025932 219.6206 75.3706 2.05881540 57313

RS-10/11

1 18129U 87054A 94296.82750190 .00000030 00000-0 15809-4 0 9751
2 18129 82.9278 233.7494 0012616 32.3157 327.8768 13.72342956367557

U0-11

1 14781U 84021B 94297.55816061 .00000164 00000-0 35570-4 0 7486
2 14781 97.7837 306.2174 0010935 212.7582 147.2946 14.69258306569302

RS-12/13

1 21089U 91007A 94296.90862597 .00000035 00000-0 21199-4 0 7478
2 21089 82.9198 275.9827 0030714 109.1284 251.3205 13.74048290186325

A0-13

1 19216U 88051B 94296.51481754 .00000031 00000-0 10000-4 0 9861
2 19216 57.6901 224.2175 7239723 353.1389 0.7191 2.09721162 17205

U0-14

1 20437U 90005B 94297.26306677 .00000025 00000-0 26654-4 0 476
2 20437 98.5853 20.2521 0010944 168.2396 191.9042 14.29859371248033

A0-16

1 20439U 90005D 94297.24379376 .00000025 00000-0 26807-4 0 8458
2 20439 98.5943 21.6074 0011259 168.9779 191.1652 14.29913373248048

DO-17

1 20440U 90005E 94297.74526568 .00000036 00000-0 30723-4 0 8467
2 20440 98.5953 22.4711 0011369 167.0324 193.1147 14.30053610248138

WO-18

1 20441U 90005F 94297.72295175 .00000028 00000-0 27940-4 0 8494
2 20441 98.5950 22.4399 0011831 167.2575 192.8906 14.30027062248133

LO-19

1 20442U 90005G 94296.71284624 .00000025 00000-0 26396-4 0 8446
2 20442 98.5959 21.7332 0012251 169.9797 190.1635 14.30124958248002

FO-20

1 20480U 90013C 94297.32778939 -.00000021 00000-0 19633-4 0 7422
2 20480 99.0582 64.8687 0541320 47.0318 317.4875 12.83227529220691

A0-21

1 21087U 91006A 94295.78420499 .00000094 00000-0 82657-4 0 5313
2 21087 82.9453 48.2791 0036850 87.7998 272.7376 13.74545924187118

U0-22

1 21575U 91050B 94297.23560024 .00000046 00000-0 30056-4 0 5510

2 21575 98.4246 9.0517 0006856 267.5444 92.4955 14.36937429171612
 K0-23
 1 22077U 92052B 94298.23934878 -.00000037 00000-0 10000-3 0 4442
 2 22077 66.0877 7.6884 0015322 255.9647 103.9671 12.86288415103510
 K0-25
 1 22828U 93061F 94298.19750665 .00000028 00000-0 28923-4 0 3208
 2 22828 98.6393 12.7082 0009972 171.5956 188.5405 14.28070732 24330
 K0-25?
 1 22830U 93061H 94296.72685150 .00000096 00000-0 55864-4 0 3494
 2 22830 98.5409 7.1050 0010220 158.1055 202.0576 14.28067954 56048
 I0-26
 1 22826U 93061D 94298.21701205 .00000040 00000-0 33981-4 0 3412
 2 22826 98.6417 12.7030 0008759 186.3937 173.7130 14.27743790 56249
 A0-27
 1 22825U 93061C 94298.24553362 .00000009 00000-0 21431-4 0 3437
 2 22825 98.6433 12.6764 0008311 184.0983 176.0129 14.27638387 56248
 P0-28
 1 22829U 93061G 94298.20539440 .00000034 00000-0 31172-4 0 3350
 2 22829 98.6401 12.7349 0009988 172.0963 188.0381 14.28045910 56252
 Mir
 1 16609U 86017A 94297.85977163 .00009819 00000-0 13720-3 0 8252
 2 16609 51.6469 257.4031 0002342 164.3054 195.8016 15.57548508496222

Keplerian bulletins are transmitted twice weekly from W1AW.
 The next scheduled transmission of these data will be Tuesday,
 November 1, 1994, at 2230z on Baudot and AMTOR.
 NNNN
 /EX

 Date: 28 Oct 1994 23:20:25 GMT
 From: n7ryw@teleport.com (William Roth)
 Subject: Getting Started on Satellites HELP!

In article <CyCoEC.3A3@freenet.carleton.ca>, ag845@FreeNet.Carleton.CA (Darryl Millson) says:

>
 >
 > Hello, I'm a 'year-old ham' and am interested in receiving satellite
 > images (eg. weather) and contacts. Could someone give me some information
 > on what type of antenna's to make(or buy) and what i need in terms of
 > radio equipment and software to run on my 486? At present I have a 2m
 > handheld and a bunch of dusty radio-shack scanners! I realize that there
 > is a lot of info I need to catch up on, but any help you can offer will
 > point me in the proper direction. Thank you for your help everyone! 73's

We could go on here for weeks, and only scratch the surface, so I'll refer

you to a book, Satellite Experimenters Handbook. Available from good Ham stores and mail order.

Weather satellites are an entirely different service. Try Weather Satellite Handbook, same sources.

Have fun!

Bill, n7ryw@teleport.com
Scholls, OR

Date: Fri, 28 Oct 1994 11:51:44 EDT
From: Tyler Harpster <TJH112@psuvm.psu.edu>
Subject: RUSSIAN MILITARY SATELLITES

Does anybody know anything about listening to russian military satellites?
Any frequencies or info would be appreciated.
tyler.

Date: 31 Oct 94 16:33:00 GMT
From: neill.p.taylor@aea.ORGn.UK (Neill Taylor)
Subject: Satellite tracking software needed

Geoff L. Kennedy wrote:

> I am looking for an MS-DOS based satellite tracking program which
> will produce a tabular prediction *text file* output for "visible" passes.
>
> There is one hitch.....the output, in addition to AOS/LOS times and
> Alt/Az info, *** MUST contain the ORBIT NUMBER for each pass. ***

The program GSTP, available from AMSAT-UK, will do what you want.

Neill G4HLX

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End of Ham-Space Digest V94 #308
